COMUNE DI CATANZARO
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Prot. N. 32948 del 26/03/2026

PERSONAL INFORMATION Irene Colosimo



[redacted]

PERSONAL STATEMENT

I am an environmental engineer with a blend of experience across academic research, international project management, and public administration. Currently serving as Deputy Mayor for Environment and Ecological Transition of the City of Catanzaro, I lead complex urban sustainability policies, coordinate institutional partnerships, and drive innovative environmental initiatives at the local and regional level.

Previously, I worked as a Project Manager in the offshore renewable energy sector, focusing on the development of floating wind farms. My role involved strategic planning, stakeholder engagement, and regulatory navigation in high-impact, cross-disciplinary settings.

I hold a PhD in Environmental Fluid Mechanics from Delft University of Technology, where I conducted research on sustainable coastal development. During my doctoral work, I collaborated with private companies, NGOs, and public stakeholders—an experience that sharpened my ability to bridge science, policy, and practice. These skills were further strengthened through my role as a startup project manager, where I coordinated innovation-driven projects and multidisciplinary teams in fast-paced environments.

I bring strong organizational and leadership skills, a passion for collaborative problem-solving, and a deep commitment to environmental transition. I thrive in multicultural, multidisciplinary environments and actively seek out challenges that require systems thinking, diplomacy, and a forward-looking vision.

WORK EXPERIENCE

Sept 2024 – present	Deputy Mayor for Environment and Ecological Transition of the City of Catanzaro (IT)
Mar 2023	Preliminary study for the design and sizing of mooring and anchoring systems for floating renewable energy platforms. Client: RWE
Dec 2022	Preliminary study for the design and sizing of mooring and anchoring systems for floating renewable energy platforms. Client: *E3: Environment-Earth-Engineering*, Spinoff Università della Calabria (UNICAL)
May 2022-Sept 2024	Project Manager: managing permitting process for the ENVIRONMENTAL IMPACT ASSESSMENT (EIA) of Floating Offshore Wind and Solar Farms - *New Developments s.r.l.*
May 2021-Feb 2022	Operations Director – Emergency works on the cliff to protect the Church of Capo Colonna and the surrounding Roman archaeological remains, located on the cliff edge – Archaeological Park of Capo Colonna, Crotone Client: Italian Ministry of Culture (MIC)
May 2021-July 2022	Innovation Specialist Consultant at *Entopan Innovation-Startup Incubator and Accelerator*
Feb 2020- to present	Freelance Environmental Engineer

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Aug 2016-Dec 2024 — PhD and sided research projects at Delft University of Technology (the Netherlands)

PhD Project title: "Beneficial Re-Use of Sediment for Salt-Marsh Restoration- Unravelling Sediment Transport Process on Intertidal Flats"

- Publish scientific articles on international journals, and the final dissertation;
- Present scientific results at national and international events/conferences;
- Assist teaching activities (subject: *Building with nature for Hydraulic Engineers*) and supervise MSc students during thesis projects;
- Planning, designing and carrying out filed work in marine environment;
- Analysing datasets using programming tools, e.g. Matlab.

02/2015 - 05/2015 — External Research Collaborator at DICAM (Civil, Chemical, Environmental and Materials Engineering Department) of Bologna University, Italy

- Numerical modelling of WECs (Wave Energy Converters) farms

EDUCATION AND TRAINING

March 2014 — Esame di Stato ed Iscrizione all'Albo degli Ingegneri

2012-2014 — Master Degree in Environmental Engineering
Universita' degli Studi di Bologna, Italy

110/110 cumlaude

2007-2011 — Bachelor Degree in Environmental Engineering
Universita' degli Studi di Bologna, Italy

110/110 cumlaude

PERSONAL SKILLS

Mother tongue(s)	Italian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	C1	C1	C1	C1	C1
Dutch	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

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Communication skills

- Communication skills (developed through the education in four different countries: Italy, Denmark, Spain, the Netherlands);
- Presenting skills (developed with different activities: presenting at international conferences, teaching, taking part to a journalistic project).
- Networking skills (strengthen during the PhD in the Netherlands, which provides many opportunities for a wide and international network also out of the academia)
- Good team member (I trained as a gymnast for 10 years at agonistic level participating to national-level competitions. The PhD is also a great experience of teamwork)
- Friendly personality: I have empathy and I easily connect to people.

Organizational / managerial skills

- Organizational skills, enhanced by the intensive three field campaigns carried out during my PhD.During the field work I managed and coordinated the work of the entire group.

ADDITIONAL INFORMATION

Publications

Colosimo, I. (2024). *Winds of Opportunity: Intertidal Flat Hydrodyanmics & Morphodynamics. [Dissertation (TU Delft), Delft University of Technology]. https://doi.org/10.4233/uuid:706d31e7-3a50-49bb-bb08-328a67cbb938*

Colosimo, *I., van Maren, D. S., de Vet, P. L. M., Winterwerp, J. C., & van Prooijen, B. C. (2023). Winds of opportunity: The effects of wind on intertidal flat accretion. Geomorphology, 439, 108840. https://doi.org/10.1016/j.geomorph.2023.108840*

de Vet, P. L. M., van Prooijen, B. C., ***Colosimo,*** *I., Steiner, N., Ysebaert, T., Herman, P. M. J., & Wang, Z. B. (2020). Variations in storm-induced bed level dynamics across intertidal flats. Scientific Reports, 10(1), 12877. https://doi.org/10.1038/s41598-020-69444-7*

de Vet, P. L. M., Prooijen, B. C., ***Colosimo,*** *I., Ysebaert, T., Herman, P. M. J., & Wang, Z. B. (2020). Sediment Disposals in Estuarine Channels Alter the Eco-Morphology of Intertidal Flats. Journal of Geophysical Research: Earth Surface, 125(2). https://doi.org/10.1029/2019JF005432*

Colosimo, *I., de Vet, P. L. M., van Maren, D. S., Reniers, A. J. H. M., Winterwerp, J. C., & van Prooijen, B. C. (2020). The impact of wind on flow and sediment transport over intertidal flats. In Journal of Marine Science and Engineering (Vol. 8, Issue 11, pp. 1–26). https://doi.org/10.3390/jmse8110910*

Baptist, M. J., Gerkema, T., van Prooijen, B. C., van Maren, D. S., van Regteren, M., Schulz, K., ***Colosimo,*** *I., Vroom, J., van Kessel, T., Grasmeijer, B., Willemsen, P., Elschot, K., de Groot, A. V., Cleveringa, J., van Eekelen, E. M. M., Schuurman, F., de Lange, H. J., & van Puijenbroek, M. E. B. (2019). Beneficial use of dredged sediment to enhance salt marsh development by applying a 'Mud Motor.' Ecological Engineering, 127, 312–323. https://doi.org/10.1016/j.ecoleng.2018.11.019*

van Regteren, M., ***Colosimo,*** *I., de Vries, P., van Puijenbroek, M. E. B., Freij, V. S., Baptist, M. J., & Elschot, K. (2019). Limited seed retention during winter inhibits vegetation establishment in spring, affecting lateral marsh expansion capacity. In Ecology and Evolution (Vol. 9, Issue 23, pp. 13294–13308). https://doi.org/10.1002/ece3.5781*

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Presentations and Conferences

- Presentation at United States Army Corps of Engineers (USACE), 2020 - **Manhattan, USA**
- Presentation at STEM Soroptimist Event "Women in Science & Technology", 2019 - **Catanzaro, IT**
- Presentation at American Geophysical Union (AGU) Conference, 2018 - **Washington DC, USA**
- Presentation at Festival della Scienza, 2018 - **Genova, IT**
- Presentation at EcoShape Conference "Scaling up Building with Nature", 2018 - **Utrecht, NL**
- Presentation at Physics Lab Events "Un Mare di idee", 2018 - **Catanzaro, IT**
- Presentation and second prize at **Krone Award** Competition – International Conference ofCohesive sediments (INTERCOH), 2017 - **Montevideo, UG**
- Presentation at Netherlands Center for Coastal Research Conference (NCK), Royal Netherlands Naval Institute, 2017 - **Den Helder, NL**
- Summer School on Estuarine Physics, 2016 - **Bordeaux, FR**
- Poster at Netherlands Center for Coastal Research Conference (NCK), Inspiration Center Grevelingen, 2016 - **Ouddorp, NL**

Media

- Comix on **Corriere della Sera**, January 2, 2020
- Article on magazine **OGGI**, December 24, 2019
- Web Documentary **"ADAPTATION"**, out since June 2019, (www.adaptation.it)
- Article on **National Geographic** Magazine, July 16, 2019
- Article and interview on TU Delft **"Story of Science"**, July 27, 2017

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